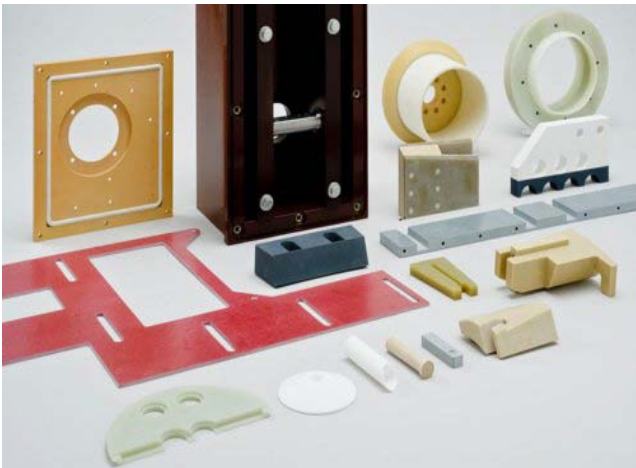




# ABB Switzerland Ltd, Micafil Laminate Technologies

# Micafil Laminate Technologies

## Our product range



# HV-Generator

## Insulation kits for leading generator manufacturer



### Comprehensive product portfolio

#### Rotor slot insulation

- Profiles L, T, U, Z
- Size according drawing.  
Length up to 12 m

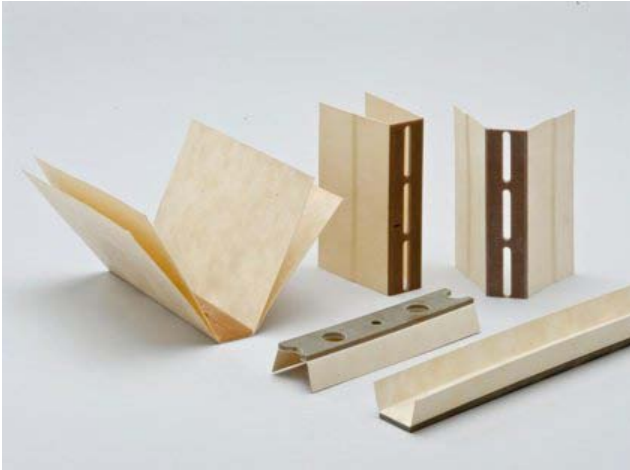
#### Fastenings

- Threaded rods and Nuts
- Spring cup washers

#### Machined Parts

- Stator caps, corner insulation
- Strips
- Stator wedges

# Rotor slot profile made of RESOLAM®



## **RESOLAM®**

### **Aramid aromatic polyamide fiber paper (PA)**

#### Main Properties:

- good mechanical and electrical properties
- very good thermal properties
- temperature class H (180°C)
- very easily fitted in position because highly flexible

# Rotor slot profile made of VETRESIT®



## **VETRESIT 17®**

### **Glass Fabric / Epoxy resin**

#### Main Properties:

- good mechanical and electrical Properties
- temperature class F (155°C)
- form stable

# Rotor slot made of VETRELAM®



## **VETRELAM®**

**Polyamide fibre paper and glass fabric / epoxy resin with tracking resistant top layers**

Main Properties:

- good mechanical and electrical properties
- very good thermal properties
- temperature class F - H (155°C - 180°C)
- rigid

# Fastenings for demanding applications



**Bolts, nuts and spring cup washers  
made of VETRESIT 300 ®,  
VETRESIT 305 ® or VETRESIT ®**

Main Properties:

- temperature class F
- high tracking resistance
- comparable or even superior mechanical properties as those of metal.
- threaded Rods M8 to M42
- nuts M8 to M42
- spring cup washers made of Vetresit 305 ® with modules of elasticity approx. 18000 N/mm<sup>2</sup>

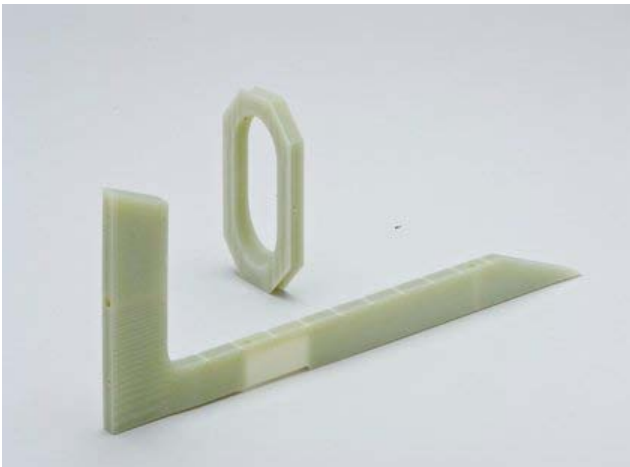


# Best in class solutions for specific applications



## Best in class solutions for Generator Circuit Breaker

Torsion shaft manufactured with  
resin transfer moulding process



## Micafil machined composites fly into space

We also manufacture sandwich  
panels with foam cores and edge  
reinforcement at extremely high  
quality standards with tight  
tolerances for the space industry

# Micafil Laminate Technologies

## Conclusion

### **Your benefits with Micafil Laminate Technologies**

- large number of references for all types of Generator Insulation solutions
- your “one stop shopping” partner for rotor kits
- broad polymer and composite knowledge
- accurate machining capability of laminates
- short lead times for new products
- highly skilled partner to achieve your product targets regarding laminates applications

Power and productivity  
for a better world™

